



Illumineye DS Suite  
vxl software

Product Capability Whitepaper

# Server Sizing and Scalability

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This document applies to Illumineye DS Manager

This document is aimed at helping you size your server environment for hosting the Illumineye DS Manager within your organization. The data below are provided as examples and the figures may vary depending on your particular circumstances and the settings you deploy for functions such as heartbeat interval and inventory synchronization. Your experience using the product will enable you to further refine the examples provided.

<p><b>Up To 1000 Players Single Server</b></p>	<p>Up to 1000 Devices - All Management Suite Services Hosted on One Server                      CPU: Intel Xeon Dual Core or Intel i7 Quad Core 64-bit processor                      RAM: 6 GB min                      Network Adapter: Gigabit Network adapter                      HDD Sizing: 250 GB of free disk space on 7.2K RPM or faster drives or arrays                      Heartbeat: 150 seconds                      Database: Microsoft SQL Express, Microsoft SQL</p>
<p><b>Up To 2000 Players Single server</b></p>	<p>CPU: Intel Xeon Quad Core 64-bit processor                      RAM: 8 GB min                      Network Adapter: Gigabit Network adapter                      HDD Sizing: 250 GB of free disk space on 7.2K RPM or faster drives or arrays                      Heartbeat: 300 seconds                      Database: Microsoft SQL Express, Microsoft SQL</p>
<p><b>Up To 6000 Players Distributed Server</b></p>	<p><i>Server 1 - The IIS Server</i>                      CPU: Intel Xeon Quad Core 64-bit processors                      RAM: 16GB Min                      Network Adapter: Gigabit Network adapter                      HDD Sizing: 250 GB of free disk space on 7.2K RPM or faster drives or arrays                      Heartbeat: 900 seconds</p> <p><i>Server 2 - The Database Server</i>                      CPU: Dual Intel Xeon Quad Core 64-bit processor                      RAM: 32 GB Min                      Network Adapter: Gigabit Network adapter                      HDD Sizing: 500 GB of free disk space on 7.2K RPM or faster drives or arrays                      Database: Microsoft SQL</p>

<p><b>Up To 10000 Players Distributed Server</b></p>	<p><i>Server 1 - The IIS Server</i>                      CPU: Intel Xeon Quad Core 64-bit processor                      RAM: 32GB Min                      Network Adapter: Dual Bonded Gigabit Network adapters                      250 GB of free disk space on 7.2K RPM or faster drives or arrays                      Heartbeat: 1600 seconds</p> <p><i>Server 2 - The Database Server</i>                      CPU: Dual Intel Xeon Hexa Core 64-bit processor                      RAM: 64 GB Min                      Network Adapter: Dual Bonded Gigabit Network adapter                      HDD Sizing: 1TB of free disk space on 10K RPM or faster drives or arrays                      Database: Microsoft SQL</p>
<p><b>Up To 20000 Players Distributed Server</b></p>	<p><i>Server 1 - The IIS Server</i>                      CPU: Intel Xeon Quad Core 64-bit processor                      RAM: 32GB Min                      Network Adapter: Dual Bonded Gigabit Network adapter                      HDD Sizing: 250 GB of free disk space on 7.2K RPM or faster drives or arrays                      Heartbeat: 3000 seconds</p> <p><i>Server 2 - The Database Server</i>                      CPU: Dual Intel Xeon Hexa Core 64-bit processors                      RAM: 64 GB of RAM                      Network Adapter: Dual Bonded Gigabit Network adapter                      HDD Sizing: 2TB of free disk space on 10K RPM or faster drives or arrays                      Database: Microsoft SQL</p>
<p><b>20000 + Players</b></p>	<p>For Fusion UDM installations of this size and larger we recommend obtaining further tuning assistance from VXL Professional Services or one of our Valued Expert Solutions Providers.</p>

The heartbeat value is provided in seconds for the higher number of players of the range. The ratio [Heartbeat delay in Seconds] / [number of players] shall not exceed 0.15.

Microsoft SQL Express 2012 has a 10 gigabyte database size limitation. If this limitation is reached, the server will not function properly and the database will no longer be able to write more data. It is possible that each agent could use as much as 1 megabyte or more during its lifecycle, so take great care to monitor the disk usage and upgrade to a full version of SQL prior to reaching the 10 gigabyte limit.

## About VXL Software

VXL Software is a global company, with offices in Asia, Europe and the USA. VXL Software is a division of VXL Instruments. Established in 1976, VXL is a global leading manufacturer of thin-, zero- and cloud-client devices. VXL Software has locations in the USA, UK, France, Germany, the United Arab Emirates, India and Singapore. VXL Software's Americas Group is headquartered in Houston, Texas. The European headquarters is in Manchester. VXL Software's development team, and the Asia Pacific headquarters, are based in Mumbai, India.

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